

What is claimed is:

1. An electronic still camera comprising:

a photographing optical system;

an image pick-up device; and

5 a transmission optical component;

wherein light rays of an object which are passed through said photographing optical system are incident on a sensor surface of said image pick-up device through said transmission optical component,

10 wherein said transmission optical component is shaped so as to shift an image point of an object image formed through said photographing optical system rearwards with respect to said photographing optical system.

15 2. The electronic still camera according to claim 1, wherein said electronic still camera comprises a focal plane shutter, and

wherein said transmission optical component and said image pick-up device are positioned behind said focal plane shutter with respect to said photographing optical system.

20 3. The electronic still camera according to claim 1, wherein said transmission optical component includes a concave lens surface having a negative optical power.

25 4. The electronic still camera according to claim

3, wherein the surface on the photographing optical system side of said transmission optical component comprises a concave lens surface.

5        5.        The electronic still camera according to claim  
3, wherein said transmission optical component comprises a concave lens having a concave surface on the sensor surface side.

6.        The electronic still camera according to claim  
4, wherein said image pick-up device comprises:  
10        a protection glass on the photographing optical system side with respect to said sensor surface; and  
          said transmission optical component which is installed on the photographing optical system side of said protection glass.

15        7.        The electronic still camera according to claim  
6, wherein said transmission optical component comprises an infrared absorption filter, an optical adhesive layer, and an optical low-pass filter, cemented in that order from said photographing optical system side;

20        wherein the surface on the photographing optical system side of said infrared absorption filter is a concave curved surface; and

          wherein the surface on the photographing optical system side of said optical adhesive layer includes a  
25        concave surface of a plano-concave lens.

8. The electronic still camera according to claim 7, wherein the refractive index of said optical adhesive layer is greater than the refractive index of said infrared absorption filter.

5 9. The electronic still camera according to claim 6, wherein said transmission optical component comprises an infrared absorption filter, an optical adhesive layer, and an optical low-pass filter, cemented in that order from said photographing optical system side;

10 wherein said infrared absorption filter has a plano-concave shape having a concave surface on the photographing optical system side.

10. The electronic still camera according to claim 6, wherein said transmission optical component comprises  
15 an infrared absorption filter, an optical adhesive layer, and an optical low-pass filter, cemented in that order from the photographing optical system side,

wherein the sensor surface side of said optical low-pass filter is a concave curved surface, and said  
20 optical adhesive layer has a plano-concave shape having a concave surface on the sensor surface side.

11. The electronic still camera according to claim 10, wherein the refractive index of said optical adhesive layer is greater than the refractive index of said  
25 low-pass filter.

12. The electronic still camera according to claim  
6, wherein said transmission optical component comprises  
an infrared absorption filter, an optical adhesive layer  
and an optical low-pass filter, cemented in that order  
5 from the photographing optical system side, said infrared  
absorption filter and said optical low-pass filter being  
cemented together by said optical adhesive layer, and

wherein said low-pass filter has a plano-concave  
shape having a concave surface on the sensor surface side.

10 13. The electronic still camera according to claim  
6, wherein said low-pass filter and said protection glass  
are cemented to each other via said optical adhesive  
layer.

14. The electronic still camera according to claim  
15 6, wherein said low-pass filter and said protection glass  
are cemented to each other at the peripheries thereof so  
as to define a predetermined amount of space therebetween.

15. The electronic still camera according to claim  
1, wherein said transmission optical component is fixed  
20 to said image pick-up device with the space between the  
sensor surface and the photographing optical system being  
sealed in an air-tight manner.

16. The electronic still camera according to claim  
15, wherein said image pick-up device comprises an  
25 infrared absorption filter, an optical adhesive layer,

and an optical low-pass filter, in that order from the photographing optical system side;

wherein the surface on the photographing optical system side of said infrared absorption filter is a concave curved surface; and

wherein said optical adhesive layer has a plano-concave shape having a concave surface on the infrared absorption filter side to which said optical adhesive layer is cemented.

10        17.    The electronic still camera according to claim 16, wherein the refractive index of said optical adhesive layer is greater than the refractive index of said infrared absorption filter.

15        18.    The electronic still camera according to claim 15, wherein said transmission optical component comprises an infrared absorption filter, an optical adhesive layer, and an optical low-pass filter, cemented in that order from said photographing optical system side; wherein said infrared absorption filter has a plano-concave lens shape having a concave surface on the photographing optical system side.

25        19.    The electronic still camera according to claim 4, wherein said transmission optical component comprises a transparent protection plate installed on the photographing optical system side of said sensor surface

of said image pick-up device.

20. The electronic still camera according to claim 19, wherein said transparent protection plate, which serves as said transmission optical component, comprises  
5 a curved concave surface on the photographing optical system side; wherein a transparent liquid, having a refractive index which is greater than said transparent protection plate, is filled in between said transparent protection plate and said sensor surface.

10 21. The electronic still camera according to claim 19, wherein said transparent protection plate has a plano-concave shape having a concave surface on the photographing optical system side.